



Breakout session C

Linkage of Exposure and Health Outcomes

Why?

What do we know?

What do we want to know?

How do we get there?

Needs for linkage

Research to better estimate exposure and uncertainties, better define relationships between environment and health, and understand source contributions.

Public Health practice

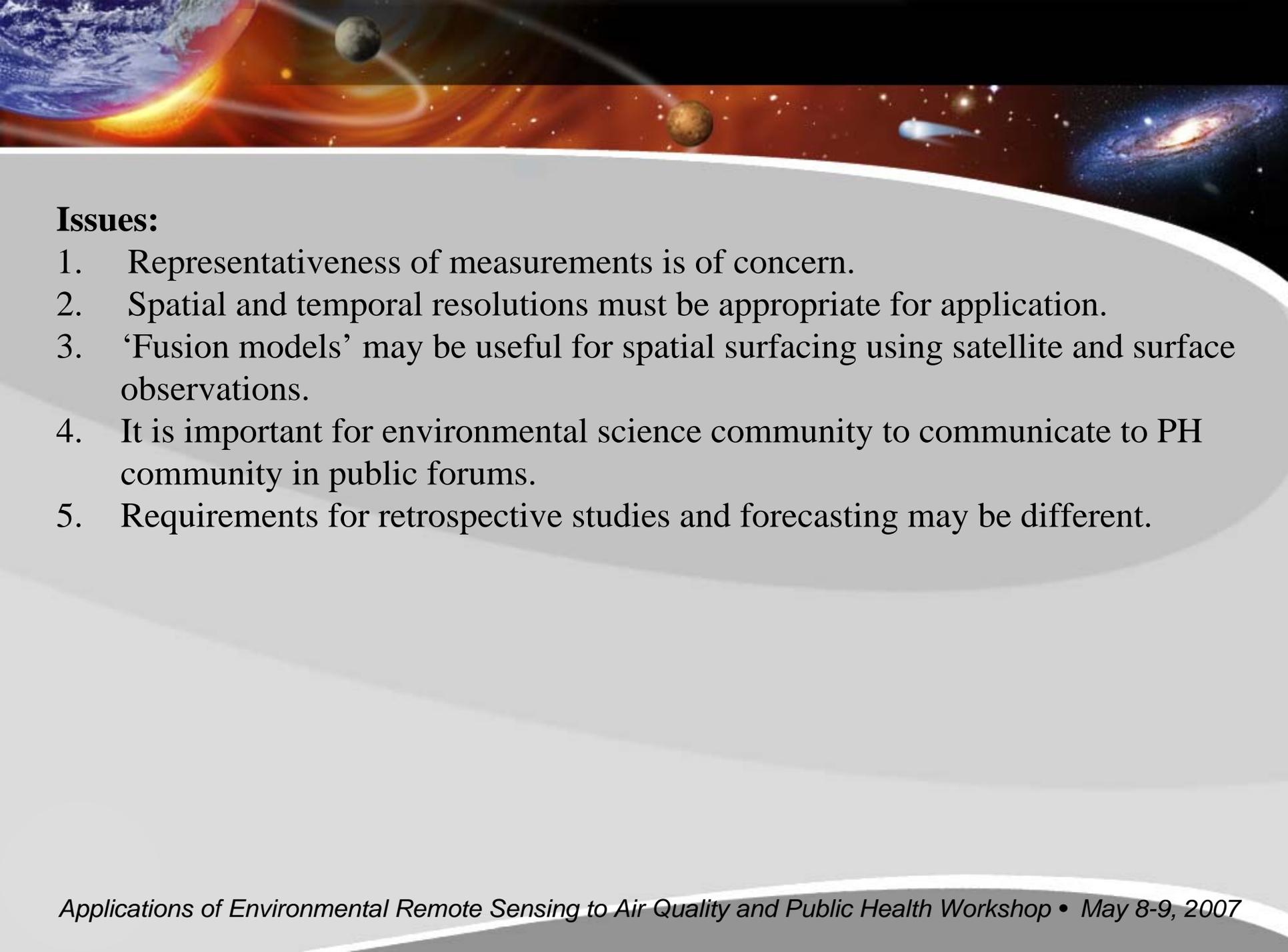
Evaluate control strategies and policies

Global impacts?

Performance indicators

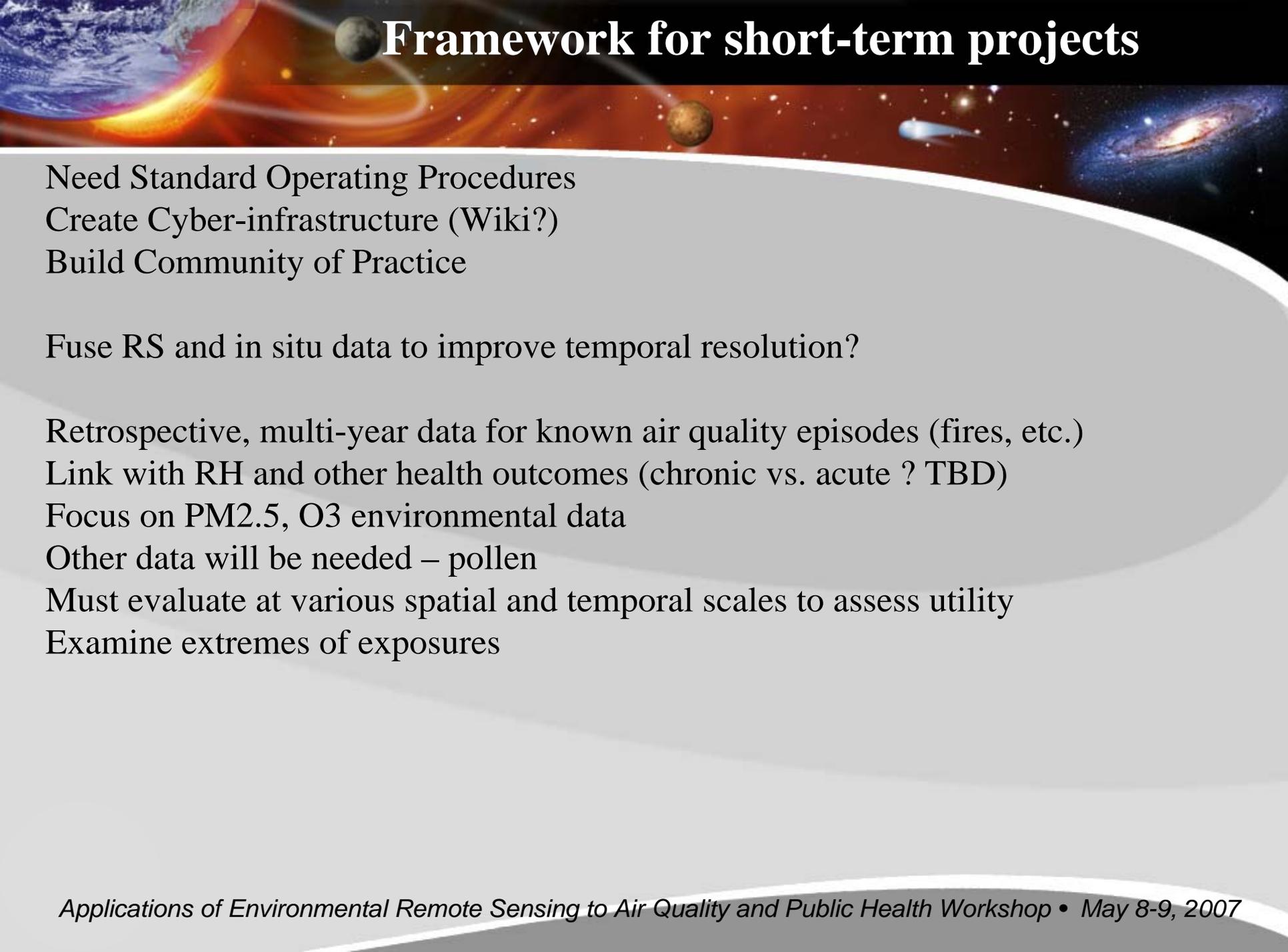
Guide future work

Don't need to link if association with health effect is well established - forecasting



Issues:

1. Representativeness of measurements is of concern.
2. Spatial and temporal resolutions must be appropriate for application.
3. 'Fusion models' may be useful for spatial surfacing using satellite and surface observations.
4. It is important for environmental science community to communicate to PH community in public forums.
5. Requirements for retrospective studies and forecasting may be different.



Framework for short-term projects

Need Standard Operating Procedures
Create Cyber-infrastructure (Wiki?)
Build Community of Practice

Fuse RS and in situ data to improve temporal resolution?

Retrospective, multi-year data for known air quality episodes (fires, etc.)

Link with RH and other health outcomes (chronic vs. acute ? TBD)

Focus on PM_{2.5}, O₃ environmental data

Other data will be needed – pollen

Must evaluate at various spatial and temporal scales to assess utility

Examine extremes of exposures